

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-256765

(43)Date of publication of application : 13.09.1994

(51)Int.Cl.

C10B 27/06

C10B 41/00

(21)Application number : 05-028046

(71)Applicant : OTTO:KK

(22)Date of filing : 17.02.1993

(72)Inventor : HANAMURA SHUNICHIRO

KIMURA MASAHIRO

FUNAKI SUSUMU

MORIMOTO YOSHIHITO

SATO YOSHIHARU

KIMURA KOZO

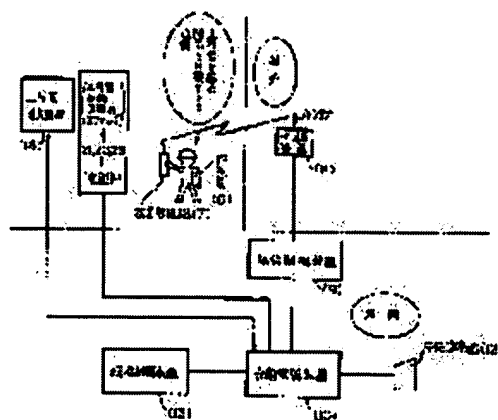
FUJII SHIGETOSHI

(54) WIRELESS CONTROL DEVICE FOR OPERATING RISER PIPE VALVES OF COKE OVEN AT WORK SITE

(57)Abstract:

PURPOSE: To provide the control device used for safe works and capable of avoiding the high temperature damage of operation devices for opening or closing valves for a riser pipe at a working site on the maintenance of a coke oven.

CONSTITUTION: The wireless control device for operating the valves of the riser pipe of a coke oven is characterized by disposing a portable wireless device 7 at the below-mentioned position, the portable wireless device 7 being operated by a worker 6 placed at the position capable of visually examining the opened or closed states of the valves 3, 4, 5 of the riser pipe 2 on a work except stationary works for a coke oven, outdoors disposing an antenna repeating device 8 for receiving



electric waves transmitted from the portable wireless device 7, connecting the antenna repeating device 8 to a wireless control device 9 in a control chamber through a wire and further to a valve-control device 10 through a wire, connecting the valve control device 10 to the electromagnetic valves of the riser pipe through wires, converting signal electric currents converted from the electric waves the antenna repeating device 8 into control electric currents with the wireless control device 9, converting the control electric currents into valve-driving electric currents with the valve control device 10, and charging the driving electric currents to the respective electromagnetic valves of of the rise pipe 2.

---

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office